

Engineer: RBP	Date: 5/22/06				
Drawn: RBP	Date: 5/22/06				
Approved: CTS	Date: 5/22/06				
Issued/ Revised	Date: 10/24/06	Size: A	Dwg. #: 5961-271313-APP	Rev: A2	Sheet: 1 Of 1

Raytheon

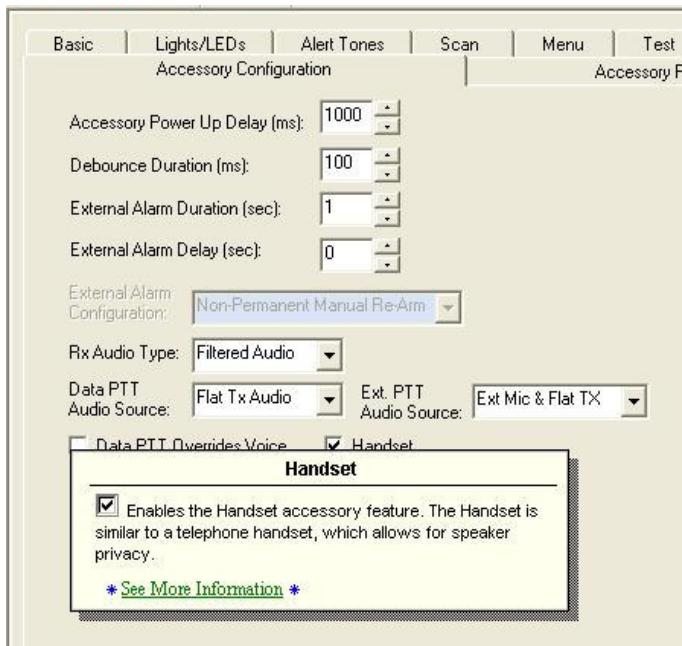
JPS Communications
5800 Departure Drive, Raleigh, NC 27616

APPLIES TO: MOTOROLA CDM750, CDM1250 CDM1550, CDM1550-LS, CDM1550-LS+, PRO3100, PRO5100, PRO7100, CM200, CM300, GM300, GTX PRIVACY PLUS, GTX LTR, M1225, M1225-LS, M130, M208, M216, PM400, SM120, SM50 MOBILES (FRONT CONNECTOR)

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING:

1. Mobile radios should normally be programmed for low transmit power.
2. This interface will typically function with no additional requirement for programming. The supported radio models that have an internal speaker will also have the follow option to enable handset and this will shut off the internal speaker.



RADIO CONTROLS:

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio.

CABLING:

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable

JPS P/N 5961-291313 (5961-271313 + 5961-261002-00)

ACU-T Interface Cable

JPS P/N 5961-281313 (5961-271313 + 5961-281013-00)

TRP-1000 Shelf Interface Cable

JPS P/N 5961-271313

DSP JUMPERS:

JP1	Low Impedance *
JP2	Balanced *

DSP PROGRAMMING:

(See Notes)

RX Level	7	-16dBm
TX Level	6*	0dBm*
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	5	2dB Boost
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

(* Indicates Default Value)

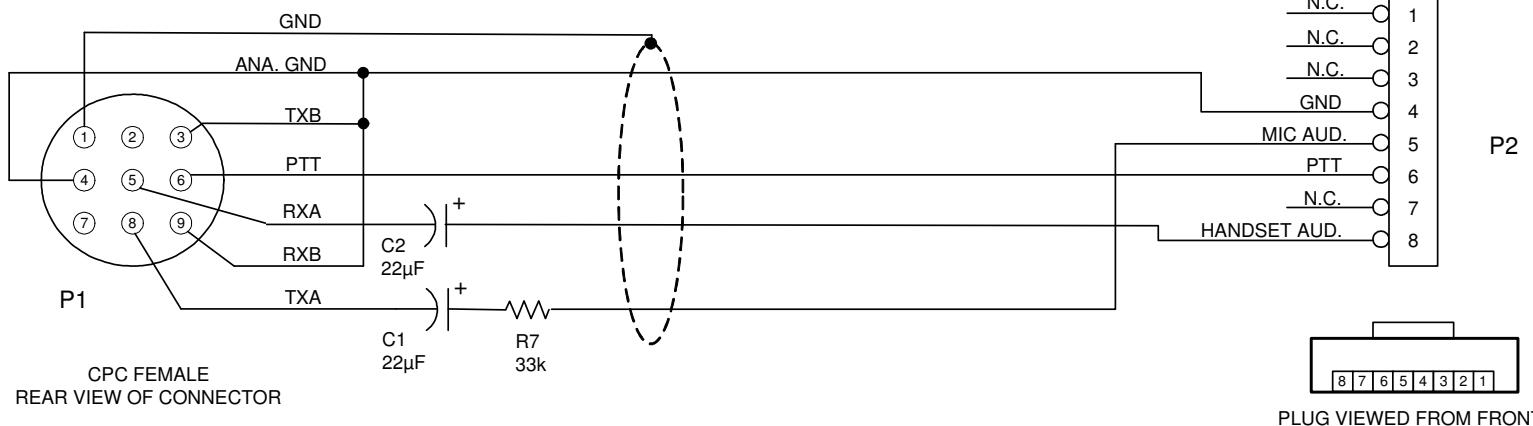
NOTES:

PURCHASED PART

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MIC CABLE
(JPS P/N 0314-336008)
OR EQUIVALENT

USE MOLDED CABLE
(JPS P/N 5961-261003-00)



CABLE DETAIL



STRETCHED CABLE LENGTH MINIMUM 2 FEET

COMPONENT PCB (JPS P/N 5961-271000)

C1 JPS P/N 0321-220250
C2 JPS P/N 0321-220250
R7 JPS P/N 1820-333000
JU5
JU6

NOTE: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

FOR DETAILED CABLE ASSEMBLY INSTRUCTIONS SEE
5961-271001-CBL.

Designed By: RBP **Raytheon JPS Communications**
Raleigh, NC USA

Drawn By: RBP Title CABLE, CPC TO MOTOROLA HANDSET INTERFACE

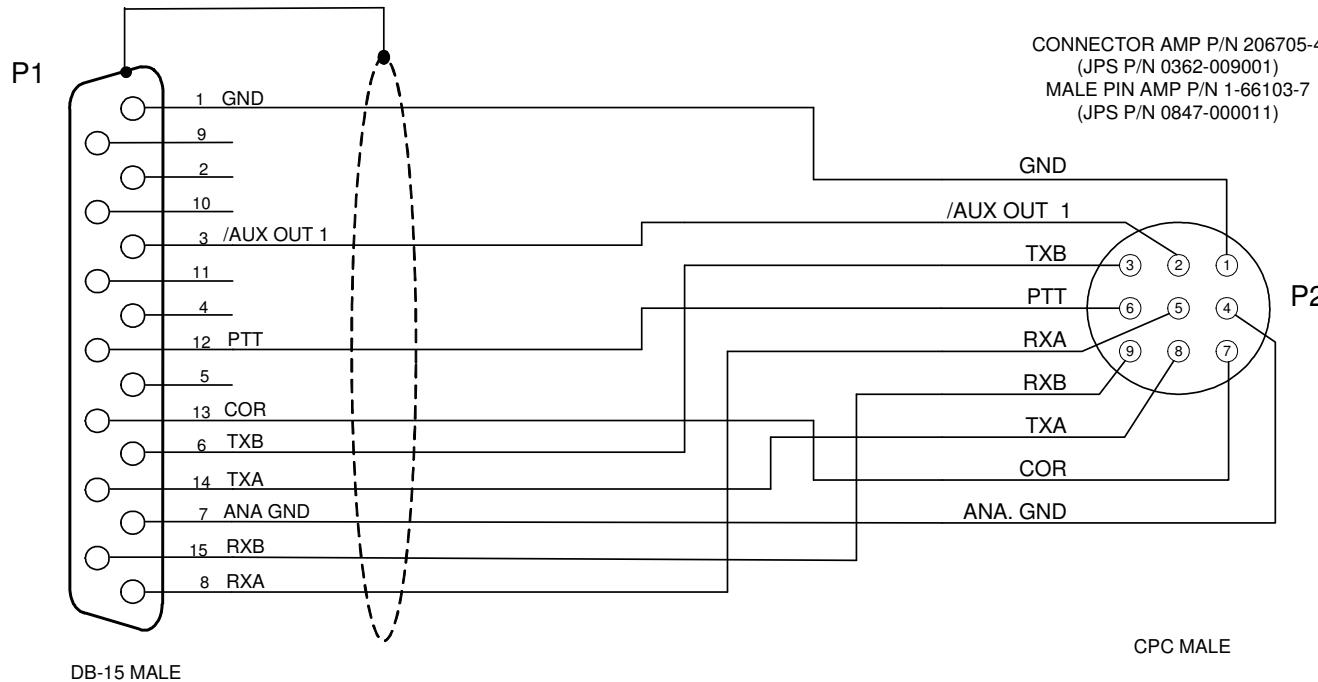
Checked By: CTS Size A Document Number
5961-271313 Rev A2

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USED WITH:
MOTOROLA CDM750, CDM1250 CDM1550, CDM1550-LS, CDM1550-LS+,
PRO3100, PRO5100, PRO7100, CM200, CM300, GM300, GTX PRIVACY PLUS,
GTX LTR, M1225, M1225-LS, M130, M208, M216, PM400, SM120, SM50
MOBILES (FRONT CONNECTOR)

PURCHASED PART

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NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND
REV, VENDOR CODE AND DATE (MM/YY).

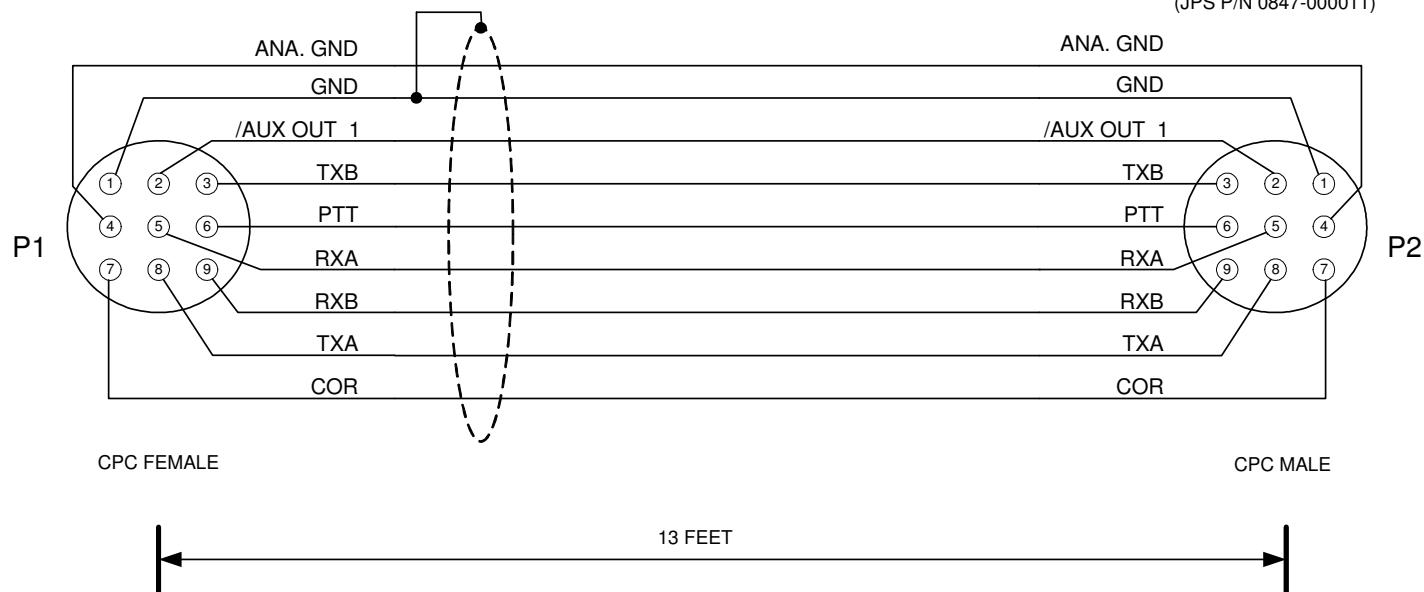
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title	CABLE, ACU-1000 RADIO EXTENSION - 13 FT	
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
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PURCHASED PART

CONNECTOR AMP P/N 206708-1
(JPS P/N 0362-005003)
FEMALE PIN AMP P/N 1-66105-8
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4
(JPS P/N 0362-009001)
MALE PIN AMP P/N 1-66103-7
(JPS P/N 0847-000011)



NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By:	JAC	Raytheon JPS Communications Raleigh, NC USA		
Drawn By:	JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
Checked By:	RBP	Size A	Document Number 5961-281013-00	Rev A
		Issued Date JANUARY 5, 2004	Sheet <u>1</u> of <u>1</u>	